

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

TENTATIVE ORDER NO. R9-2003-0007

MASTER RECLAMATION PERMIT
WITH WASTE DISCHARGE REQUIREMENTS
FOR THE PRODUCTION AND PURVEYANCE OF RECYCLED WATER

FOR

OLIVENHAIN MUNICIPAL WATER DISTRICT
4-S RANCH WASTEWATER TREATMENT PLANT
SAN DIEGO COUNTY

Table of Contents

	Findings	2
A.	Prohibitions	7
B.	Discharge Specifications	8
C.	Recycled Water Purveyance Requirements	9
D.	Facility Design and Operation Specifications	12
E.	Biosolids Specifications	15
F.	Standard Provisions	16
G.	Notifications	24
	Attachment 1 (Rules and Regulations for Recycled Water use)	26
	Attachment 2	31
	Monitoring and Reporting Program No. R9-2003-0007	32
A.	Monitoring Provisions	32
B.	Effluent Monitoring	34
C.	Filtration Process Monitoring	36
D.	Sewage Solids and Biosolids	36
E.	Storage Ponds	36
F.	Recycled Water Users Summary Report	36
G.	Report Schedule	37

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The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On June 10, 1985 this Regional Board adopted Order No. 85-40 *Waste Discharge Requirements for the County of San Diego 4-S Ranch Sanitation District San Diego County*. Order No. 85-40 established requirements for the discharge of up to 0.60 million gallons per day (MGD) of secondary treated wastewater from the County of San Diego 4-S Ranch Sanitation District wastewater treatment facility to land disposal facilities.
2. On October 5, 1987 this Regional Board adopted Addendum No. 1 to Order No. 85-40, *An Addendum Reflecting Modification of the County of San Diego 4-S Ranch Sanitation District Wastewater Treatment and Disposal Facilities, San Diego County*. Addendum No. 1 to Order No. 85-40 reduced the authorized discharge flowrate for the 4-S Ranch Wastewater Treatment Plant (4SRWWTP) from 0.6 MGD to 0.4 MGD.
3. On September 21, 1991 this Regional Board adopted Addendum No. 2 to Order No. 85-40, which made changes to the Findings, Requirements, and Monitoring and Reporting Program of Order No. 85-40.
4. On February 13, 1997 this Regional Board adopted Addendum No. 3 to Order No. 85-40. Addendum No. 3 to Order No. 85-40 amended Discharge Specification B.1 by establishing the following effluent limitations for boron: 12-month average effluent concentration not to exceed 0.75 mg/L and the daily maximum effluent concentration not to exceed 1.0 mg/L.

5. On April 20, 1998 this Regional Board adopted Technical Change Order No. 1 to Monitoring and Reporting Program No. 85-40 for the 4-S Ranch Wastewater Treatment Plant. Technical Order No. 1 replaced the first * footnote of the Monitoring Program Table in Section 4.B of the Monitoring and Reporting Program to read as follows:

For discharges of recycled water to pasture land (subject to Title 22, Section 60309), samples for coliform bacteria shall be collected and analyzed at least 1 day per week. For discharges of recycled water subject to Title 22, Sections 60303, 60305(a), 60311, 60313, 60315, 60317, or 60319, samples for coliform bacteria shall be collected daily. All samples shall be collected at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures. The chlorine residual of the effluent shall be monitored by a continuously recording analyzer.

6. The 4-S Ranch development is located in portions of the Solana Beach Hydrologic Area (HA 905.10) and the Hodges Hydrologic Area (HA 905.20) of the San Dieguito Hydrologic Unit (HU 905.00). The 4SRWWTP is located approximately 2 miles west of the community of Rancho Bernardo, San Diego County in the La Jolla Hydrologic Subarea (HSA 905.12) of HA 905.10 of HU 905.00.
7. The Olivenhain Municipal Water District (OMWD) owns the 4SRWWTP and the land it occupies, and is responsible for operating and maintaining the treatment and disposal facilities. The OMWD also manages the distribution and off-site use of the recycled water produced by the 4SRWWTP.
8. In July 2001, the OMWD submitted a Report of Waste Discharge (RWD) for the 4SRWWTP to expand the existing treatment plant capacity from 0.60 MGD to 2.0 MGD and to update the treatment process of influent wastewater from secondary treatment to tertiary treatment.
9. The RWD contains a conceptual process schematic for the proposed expansion of the 4SRWWTP, describing the facility as consisting of preliminary treatment, oxidation ditch, anoxic basin, secondary clarifiers, aerobic digesters, flocculation, tertiary filters, ultraviolet (UV) disinfection, flow equalization, solids dewatering, and odor control processes.
10. On December 20, 2002, the OMWD submitted a revised RWD for the 4SRWWTP expansion. The revised RWD indicates that a chlorine contact chamber constructed of baffled baker tanks would temporarily be used for disinfection to

meet Title 22 requirements for the production, use, and distribution of tertiary treated water while the UV commissioning/tracer study is being conducted. The temporary chlorine contact facility (TCCF) will be capable of treating up to 1.0 MGD. The State Department of Health Services (State DHS) approved the use of the TCCF for disinfection on December 31, 2002. Once authorization for use of the UV disinfection system has been granted the TCCF will be dismantled and removed from the 4SRWWTP.

11. In accordance with Section 2200, Title 23 of the California Code of Regulation, the threat to water quality and complexity of the use of the treated wastewater from the 4SRWWTP is determined to be Category 2B.
12. The 4-S Ranch Sanitation District (hereinafter discharger) proposes to discharge a blend of effluent and imported potable water for landscape irrigation purposes within the 4-S Ranch development.
13. This Regional Board, acting in accordance with Section 13244 of the California Water Code, adopted the Water Quality Control Plan for the San Diego Basin (9), (hereinafter Basin Plan) on September 8, 1994. The Basin Plan was subsequently approved by the State Water Resources Control Board (SWRCB) on December 13, 1994. Subsequent revisions to the Basin Plan have also been adopted by the Board and approved by the SWRCB. The Basin Plan contains beneficial uses and water quality objectives.
14. All discharges from the 4SRWWTP are located within the Solana Beach Hydrologic Area (HA 905.10) of the San Dieguito Hydrologic Unit (HU 905.00).
15. The Basin Plan established municipal and domestic supply, agricultural supply, and industrial process supply as existing beneficial uses of ground water in HA 905.10.
16. The Basin Plan established contact water recreation, non-contact water recreation, warm freshwater habitat, and wildlife habitat as existing beneficial uses of surface water in the HA 905.10. Agricultural supply and industrial service supply have been identified as potential beneficial uses of surface water in the HA 905.10.
17. The Basin Plan states that waters designated for use as domestic or municipal supply shall not contain concentrations of chemical constituents in excess of the maximum contaminant levels (MCL) specified in the California Code of Regulations, Title 22, Table 64431-A of Section 64431 (Primary MCL, Inorganic Chemicals), Table 64431-B of Section 64431 (Primary MCL, Fluoride), Table 64444-A of Section 64444 (Primary MCL, Organic Chemicals), and Table 64449-A of Section 64449 (Secondary Maximum Contaminant Levels, Consumer Acceptance Limits), incorporated by reference, including future changes to the incorporated provisions

as the changes take effect. The Basin Plan lists the following additional ground water quality objectives for HA 905.10:

BASIN PLAN GROUNDWATER WATER QUALITY OBJECTIVES													(mg/L or as noted)
(Concentrations not to be exceeded more than 10% of the time during any one year period)													
HYDROLOGIC AREA	TDS	Cl	SO ₄	%Na ²	NO ₃	Fe	Mn	M B A S	B	O D O R	TURB NTU	COLOR UNITS	F
905.10 Solana Beach ³	1500 ¹	500 ¹	500 ¹	60	45 ¹	0.85 ¹	0.15 ¹	0.5	0.75 ¹	None	5	15	1.0

1 Detailed salt balance studies are recommended for this area to determine limiting mineral concentration levels for discharge. On the basis on existing data, the tabulated objectives would probably be maintained in most areas. Upon completion of the salt balance studies, significant water quality objective revisions may be necessary. In the interim period of time, projects of ground water recharge with water quality inferior to the tabulated numerical values may be permitted following individual review and approval by the Regional Board if such projects do not degrade existing ground water quality to the aquifers affected by the recharge.

2 In some cases, Adjusted Sodium Adsorption Ratio (ASAR) may be a better indicator of the potential sodium hazard in irrigation water than percent sodium. The Regional Board may authorize the use of the ASAR instead of percent sodium to indicate the potential sodium hazard.

3 The water quality objectives do not apply westerly of the easterly boundary of Interstate Highway 5. The objectives for the remainder of the Hydrologic Area (Subarea) are as shown.

18. As stated in the Basin Plan, for discharges of recycled water not up-gradient of municipal water supply reservoirs, the effluent limitations will be at levels that are not less than constituent concentrations of water supply plus a typical incremental increase resulting from domestic water use, but not more than the Basin Plan ground water quality objectives.
19. A discharge in compliance with this Order will be consistent with the standards, policies, and regulations established in the Basin Plan for the achievement of water quality objectives.
20. Potable water for the 4SRWWTP is supplied by the OMWD. The OMWD imports its water from the San Diego County Water Authority (SDCWA), who in turn is supplied with water from the Metropolitan Water District (MWD). The water distributed by the MWD is a blend of water from the Colorado River and State Water Project (SWP).
21. Pursuant to the Basin Plan, this Regional Board requires recycled water projects lacking a fail-safe land outfall to an ocean outfall to have 84 days of storage capacity

unless the discharger documents that an exception to this requirement is justified. The RWD indicates that the facilities of 4SRWWTP include a 410 acre-foot overflow pond, which has 84-day effluent capacity at a production rate of 1.6 MGD. Additional seasonal storage capacity will need to be added if the 4SRWWTP produces effluent at its maximum rated flow of 2.0 MGD.

22. In establishing the requirements contained herein the Regional Board considered factors including, but not limited to, the following:
 - a. Beneficial uses to be protected and the water quality objectives reasonably required for that purpose,
 - b. Other waste discharges,
 - c. The need to prevent nuisance,
 - d. Past, present, and probable future beneficial uses of the hydrologic subunits under consideration,
 - e. Environmental characteristics of the hydrologic subunits under consideration,
 - f. Water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area,
 - g. Economic considerations,
 - h. The need for additional housing within the region, and
 - i. The need to develop and use recycled water.
23. The proposed project will make use of recycled water consistent with the goals of California Water Code, Division 7, Chapter 7, *Water Recycling Law*
24. Pursuant to California Water Code (CWC), Section 13523.1, this Regional Board, after consulting with, and receiving the recommendations of, the State DHS and any party who has requested in writing to be consulted and with the consent of the proposed permittee, issues a master reclamation permit to the recycled water supplier in lieu of issuing waste discharge requirements pursuant to CWC, Section 13263 or water reclamation requirements pursuant to CWC, Section 13523.
25. As specified by CWC, Section 13523.2, this Order includes the following:
 - Waste discharge requirements adopted pursuant to Article 4;
 - Requirements that the permittee comply with the uniform statewide criteria established by the State DHS pursuant to Section 13521 and other applicable permit conditions for the use of recycled water;

- Requirements for the discharger to establish and enforce rules and regulations for recycled water users in accordance with statewide reclamation criteria;
 - Requirements for the submittal of quarterly recycled water use summary reports;
 - Requirements for the recycled water agency to conduct periodic inspections of the recycled water use sites; and
 - Other requirements determined to be appropriate by this Regional Board.
26. The County of San Diego, Department of Planning and Land Use certified a final environmental impact report for this project on February 6, 1998 in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.). The project, as approved by the County of San Diego, Department of Planning and Land Use, identified no significant unmitigable groundwater impacts, and through its issuance of a Major Use Permit, implies approval of the project.
27. This Regional Board has considered all water resource related environmental factors associated with the discharge of waste and the proposed increase in effluent flow rate from the proposed 4SRWWTP.
28. This Regional Board has notified the OMWD and all known interested parties of the intent to prescribe master reclamation permit requirements for the existing discharge and the proposed increase in effluent flow rate.
29. In accordance with the *Memorandum Of Agreement Between The Department Of Health Services And The State Water Resources Control Board On Use Of Reclaimed Water*, this Order incorporates any conditions of approval submitted as part of the State DHS recommendations into water reclamation requirements proposed for adoption by this Regional Board.
30. This Regional Board in a public meeting has heard and considered all comments pertaining to the proposed discharge of waste from the 4SRWWTP.

IT IS HEREBY ORDERED THAT, the Olivenhain Municipal Water District (hereinafter Recycled Water Agency), in order to meet the provisions contained in Division 7 of the California Water Code and Regulations adopted thereunder, shall comply with the following requirements for the discharge and purveyance of recycled water from the 4-S Ranch Wastewater Treatment Plant (4SRWWTP) to HA 905.10.

A. PROHIBITIONS

1. Discharge of wastes to lands which have not been specifically described in the RWD and for which valid waste discharge requirements are not in force are prohibited.
2. Discharges of treated or untreated solid or liquid waste to a navigable water or tributary of a navigable water are prohibited unless as authorized by an NPDES permit issued by this Regional Board.
3. Neither the treatment, storage nor disposal of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.
4. The discharge of treated wastewater shall not cause a violation of the prohibitions contained in the Basin Plan.

B. DISCHARGE SPECIFICATIONS

1. The average daily effluent flow rate from the 4SRWWTP shall be limited to 1.6 MGD until the Recycled Water Agency obtains approval of the increased seasonal wet weather storage capacity to 2.0 MGD pursuant to Section D.2 of this Order.
2. The average daily flow rate from the Temporary Chlorine Contact Facility (TCCF) shall not exceed 1.0 MGD. The TCCF effluent chlorine residual shall be maintained at a minimum concentration of 3.4 mg/L.
3. Effluent used for landscape irrigation purposes shall be treated to the most restricted level in conformance with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (Reclamation Criteria) for landscaping irrigation [currently Section 60304 (b) and 60320.5]. Recycled water from the 4SRWWTP shall not contain constituents in excess of the following limitations:

Constituent	Unit	Daily ¹ Maximum	Monthly ² Average	12-month ³ Average
Biochemical Oxygen Demand (BOD ₅ @ 20°C)	mg/L	45	30	--
Total Suspended Solids	mg/L	45	30	--
pH	within the limits of 6.0 to 9.0 at all times			
Total Dissolved Solids	mg/L	1,200	--	*
Chloride	mg/L	350	--	--
Sulfate	mg/L	350	--	--

Percent Sodium	%	65	--	60
Iron	mg/L	1.0	0.85	--
Manganese	mg/L	0.20	0.15	--
Methylene Blue Active Substances	mg/L	0.6	0.5	--
Boron	mg/L	1.0	--	0.75
Fluoride	mg/L	1.2	1.0	--

¹The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

²The monthly average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 consecutive calendar day period.

³The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 12 consecutive calendar month period.

*The increment of TDS in effluent over supply water shall not exceed 400 mg/L up to a maximum value of 1,500 mg/L.

4. The median concentration of total coliform bacteria measured in the disinfected recycled water effluent from 4SRWWTP shall not exceed a Most Probable Number (MPN) of 2.2 per 100 milliliters, utilizing the bacteriological results of the last seven days for which analyses have been completed; and the number of total coliform bacteria shall not exceed a MPN of 23 per 100 milliliters in more than one sample in any 30-day period. No sample shall exceed a MPN of 240 total coliform bacteria per 100 milliliters.
5. Turbidity concentration of the recycled water effluent from the 4SRWWTP shall not exceed a daily average value of 2 NTU (nephelometric turbidity units), shall not exceed 5 NTU more than 5% of the time during a 24-hour and, not to exceed 10 NTU at any time.
6. Discharges to a landscape impoundment must be terminated whenever an overflow of the impoundment is imminent.

C. RECYCLED WATER PURVEYANCE REQUIREMENTS

1. Prior to the initiation of the purveyance of recycled water project, the Recycled Water Agency must complete all of the following:
 - a. Develop and submit for approval *Rules and Regulations for Recycled Water Users* governing the design and construction of recycled water use facilities and the use of recycled water to the Regional Board, the State DHS and the County of San Diego Department of Environmental Health (County DEH). Rules and regulations shall, at a minimum, include the requirements that are

contained in Attachment No. 1 of this Order.

- b. Develop and submit for approval a program to conduct compliance inspections of recycled water reuse sites to the Regional Board, State DHS and County DEH. Inspections shall determine the status of compliance with the Recycled Water Agency's approved rules and regulations for recycled water users.
- c. Submit a report to the State DHS and the County DEH containing the information listed below. The Recycled Water Agency may submit a master plan report that covers more than one reuse site. The report shall include a detailed description of each reuse site identifying all of the information below:
 - (1) A copy of the long-term agreement between the OMWD and the user for the use of recycled water on this development.
 - (2) The number, location, and type of facilities within the use area proposing to use domestic and recycled water. "Facility" means any type of building or structure, or defined area of specific public use that utilizes or proposes to utilize a dual plumbed system.
 - (3) The average number of persons estimated to be served at each use area on a daily basis.
 - (4) The specific boundaries of the proposed use site area including a map showing the location of each facility, drinking water fountain and impoundment to be served.
 - (5) The person or persons responsible for operation of the recycled water system at each use area.
 - (6) The specific use to be made of the recycled water at each use area.
 - (7) The methods to be used by the Recycled Water Agency to assure that the installation and operation of the recycled system will not result in cross connections between the recycled water piping system and the potable water piping system. This shall include a description of pressure, dye or other test methods to be used to test the system.
 - (8) Plans and specifications shall include the following and shall be submitted to the State DHS and County DEH for approval:
 - (a) Proposed piping system to be used,
 - (b) Pipe locations of both the recycled and potable systems,

- (c) Type and location of the outlets and plumbing fixtures that will be accessible to the public,
 - (d) The methods and devices to be used to prevent backflow of recycled water into the public water system,
 - (e) Plan notes relating to recycled water specific installation and use requirements.
 - d. Perform an alarm simulation shut down test after completion of the construction of 4SRWWTP in the presence of a sanitary engineer from the State DHS to ensure that 4SRWWTP is properly operating.
 - e. Verify the modal contact time of the TCCF, as defined under Title 22, Division 4, Chapter 3, Section 60301.600, through a tracer study to ensure that the effluent meets the requirements of Title 22. The results of this tracer study shall be submitted to the State DHS for review and approval.
2. Subsequent to initiation of the purveyance of recycled water and prior to providing recycled water to a new use site, the Recycled Water Agency shall do the following:
- a. Submit for review and approval a report that either certifies (by the agency) that the project conforms with what is described in the master plan or information to supplement what is described in the master plan to the State DHS and the County DEH. A certification report shall document that all criteria described in *Recycled Water Purveyance Requirements C.1c* has been submitted to and approved by the State DHS. Information submitted as a supplement to the master plan shall document compliance with any criteria, as described by *Recycled Water Purveyance Requirements C.1c*, not met through submittal of the master plan.
 - b. Prior to the initial operation of the dual-plumbed recycled water system and annually thereafter, the Recycled Water Agency shall ensure that the dual plumbed system within each facility and use area is inspected for possible cross connections with the potable water system. The recycled water system shall also be tested for possible cross connections at least once every four years. The testing shall be conducted in accordance with the method described in the report submitted pursuant to section 60314. The inspections and the testing shall be performed by a cross connection control specialist certified by the California-Nevada section of the American Water Works Association or an organization with equivalent certification requirements. The County DEH shall be notified 30 days prior to any cross connection test. A written report documenting the result of the

inspection or testing for the prior year shall be submitted to the County DEH within 30 days following completion of the inspection or testing.

- c. Submit for review and approval documentation confirming the information submitted as part of Monitoring and Reporting Program No. R9-2003-0007, Recycled Water Users Summary Report F.2 to the Regional Board.
3. The Recycled Water Agency shall do the following for all reuse sites:
- a. Enforce recycled water rules and regulations,
 - b. Conduct recycled water reuse site compliance inspections in accordance with the program submitted in compliance with *Recycled Water Purveyance Requirements C. 1b* of this Order,
 - c. Notify the State DHS and the County DEH of any incidence of recycled water backflow into the potable water system as soon as possible, but in no case later than 24 hours of finding the incident, and
 - d. Maintain a current list of all on-site recycled water supervisors.

D. FACILITY DESIGN AND OPERATION SPECIFICATIONS

1. PROPER OPERATION

The Recycled Water Agency shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Recycled Water Agency to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.

2. CERTIFICATION REPORT

The wastewater treatment and disposal facilities shall be completely constructed and operable prior to the initiation of the discharge. A report from the design engineer certifying the adequacy of each component of the treatment, storage, and disposal facilities shall be submitted by the discharger prior to commencement of the discharge. The certification report shall contain a requirement-by-requirement analysis based on acceptable engineering practices, of how the process and physical designs of the

facilities will ensure compliance with the master reclamation permit. The design engineer shall affix their signature and engineering license number to the certification report and should submit it prior to construction of the facilities. Recycled water shall not be purveyed to a user until all of the following have occurred:

- a. The certification report is received and approved by the Regional Board Executive Officer,
- b. The Regional Board Executive Officer has been notified that the Title 22 report and the rules and regulations for recycled water reuse are approved by the State DHS and County DEH,
- c. The Regional Board Executive Officer has been notified of the completion of facilities by the Recycled Water Agency,
- d. An inspection of the facilities has been made by staff of the Regional Board, and
- e. The Regional Board Executive Officer notifies the Recycled Water Agency by letter that recycled water purveyance can be initiated.

3. ENGINEERING REPORT

Prior to discharge, the Recycled Water Agency shall meet the design, operational, and reliability requirements of Articles 7, 8, 9 and 10 of the California Code of Regulations, Title 22, Division 4, Chapter 3. The discharger shall prepare an engineering report conforming to the California Code of Regulations, Title 22, Engineering Report Guidelines, Sections 3 and 4. The engineering report shall be submitted to the State DHS, County DEH, and the Regional Board Executive Officer.

4. WET WEATHER STORAGE

The Recycled Water Agency shall provide adequate storage facilities to contain recycled water during and after periods of rainfall when disposal by irrigation cannot be successfully practiced and to prevent the discharge of treated or untreated recycled water to any surface water body.

5. COAGULATION ALTERNATIVE

Coagulation need not be used as part of the treatment process provided that the filter effluent turbidity does not exceed 2 NTU, the turbidity of the influent to the filters is continuously measured, the influent turbidity does not exceed 5 NTU, and that there is capability to automatically activate chemical addition

or divert wastewater should the turbidity of the influent to the filters exceed 5 NTU.

6. DISINFECTION PROCESS

Disinfection of recycled water shall comply with all requirements of California Code of Regulations, Title 22, Division 4. Disinfection may be accomplished by either:

a. UV Disinfection

Results of the UV tracer/commissioning study shall be submitted to the State DHS for review and approval prior to placing the UV system into service. The use of the UV disinfection system by the 4SRWWTP is contingent upon written notification from the Regional Board.

b. Temporary Chlorine Contact Facility (TCCF)

The Recycled Water Agency shall provide the following:

- (1) A chlorine disinfection process following filtration that provides a CT (the product of total chlorine residual and modal contact time measured at the same point) value of not less than 450 mg-min/liter at all times with a modal chlorine contact time of at least 90 minutes based on peak dry weather design flow; or
- (2) A disinfection process, that when combined with the filtration process, has been demonstrated to inactivate and/or remove 99.999 percent of the plaque-forming units of F-specific bacteriophage MS2, or polio virus in the wastewater. A virus that is at least as resistant to disinfection as polio virus may be used for purposes of the demonstration.

7. OPERATION MANUAL

A copy of the facility operations manual shall be maintained at the Recycled Water Agency's facility and shall be available to operation personnel and Regional Board staff at all times. The following portions of the operations manual shall be posted at the treatment plant as a quick reference for treatment plant operators:

- a. Alarm set points for secondary turbidity, tertiary turbidity, and chlorine residual.
- b. Levels at which flow will be diverted for secondary turbidity, tertiary turbidity, and chlorine residual.
- c. When to divert flow for high daily and weekly median total coliform.

- d. When the authorities (State DHS, County DEH, Regional Board) will be notified of a diversion.
- e. Names and numbers of those authorities to be notified in case of a diversion.
- f. Frequency of calibration for turbidimeters and chlorine residual analyzers.

8. OPERATORS CERTIFICATION

The Recycled Water Agency's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23 of the California Code of Regulations.

9. FLOOD PROTECTION

All waste treatment, storage and purveyance facilities shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency.

10. RUNOFF PROTECTION

All wastewater and recycled water storage facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm.

11. MONITORING AND REPORTING

The Recycled Water Agency shall comply with the attached Monitoring and Reporting Program No. R9-2003-0007, and future revisions thereto as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. R9-2003-0007.

E. BIOSOLIDS SPECIFICATIONS

- 1. Collected screenings, sludges, other solids removed from liquid wastes, and filter backwash shall be disposed in a manner approved by the Executive Officer.
- 2. Management of all solids and sludge must comply with all applicable

requirements of 40 CFR Parts 257, 258, 501 and 503; CWA Part 405(d), and Title 27, CCR, including all monitoring, record keeping and reporting requirements. Since the State of California, hence the State and Regional Boards, has not been delegated the authority by the USEPA to implement the sludge program, enforcement of sludge requirements of CFR Part 503 is under USEPA's jurisdiction. Once sludge leaves a facility, it is subject to all applicable local, state and federal laws and regulations.

3. All solids and sludge must be disposed of in a municipal solid waste landfill, reused by land application or disposed of in a sludge-only landfill accordance with 40 CFR Parts 503 and 258, and Title 27 CCR. If the discharger desires to dispose of solids or sludge by a different method, a request for permit modification must be submitted to the USEPA and this Regional Board 180 days prior to the initiation of the alternative disposal.
4. Solids and sludge treatment, storage, and disposal or reuse shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination.
5. The solids and sludge treatment site and storage site shall have facilities adequate to divert surface water runoff from adjacent areas, to protect the boundaries of the site from erosion, and to prevent drainage from the treatment and storage site. Adequate protection is defined as protection from at least a 100-year storm and protection from the highest possible tidal stage that may occur.
6. The discharge of sewage sludge and solids shall not cause waste material to be in a position where it is, or can be, conveyed from the treatment and storage sites and deposited in the waters of the state.
7. The Recycled Water Agency shall submit a copy of each of the annual reports required by 40 CFR 503 to this Regional Board Executive Officer at the same time those reports are submitted to USEPA. The Recycled Water Agency shall also submit an annual report of the quantity and disposition of sludge generated in the previous calendar year.

F. STANDARD PROVISIONS

1. ENFORCEMENT

The Regional Board may initiate enforcement action against the recycled water agency, which may result in the termination of the recycled water supply, if any person uses, transports, or stores such water in a manner

which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.

2. DUTY TO COMPLY

The Recycled Water Agency must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a report of waste discharge in application for new or revised master reclamation permit requirements.

3. ENTRY AND INSPECTION

The Recycled Water Agency shall allow the Regional Board, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to do the following:

- a. Enter upon the Recycled Water Agency's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this Order,
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order,
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this Order, and
- d. Sample or monitor, at reasonable times for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

4. CIVIL MONETARY REMEDIES

The California Water Code (CWC) provides that any person who intentionally or negligently violates any master reclamation permit requirements issued, reissued, or amended by this Regional Board shall be liable civilly in accordance with CWC Section 13350.

5. PENALTIES FOR INVESTIGATION, MONITORING OR INSPECTION VIOLATIONS

The CWC provides that any person failing or refusing to furnish technical or

monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor and is subject to a civil liability of up to 5,000 dollars for each day in which the violation occurs in accordance with CWC Section 13268.

6. ENDANGERMENT OF HEALTH AND ENVIRONMENT

The Recycled Water Agency shall report any noncompliance that may endanger health or the environment. Any such information shall be provided orally to the Regional Board within 24 hours from the time the Recycled Water Agency becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the Recycled Water Agency becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Regional Board within 24 hours:

- a. Any bypass from any portion of the treatment facility. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility to other than a sewer system.
- b. Any discharge of non-disinfected effluent or untreated wastewater resulting from sewer line breaks, obstruction, surcharge, or any other circumstances.
- c. Any treatment plant upset which causes the effluent limitations of this Order to be exceeded including, but not limited to, the following:
 - (1) Effluent total coliform bacteria greater than 240 MPN/100 ml
 - (2) Turbidity greater than 10 NTU
 - (3) Failure of chlorination equipment
 - (4) CT less than 450 mg-min/L if distributed to any recycled water user
- d. Any known direct cross-connection between recycled and potable water systems.

These incidents shall also be reported orally to the State DHS and County DEH within 24-hours of the incident.

7. PLANT OVERFLOW EVENTS

The Recycled Water Agency shall report all overflow events that occur at the 4SRWWTP. For purposes of this reporting requirement, an overflow event is defined as a discharge of treated or untreated wastewater at a location onsite or on other lands owned by the Recycled Water Agency not authorized by waste discharge requirements and/ or NPDES permit which results from a pump station failure, line break, obstruction, surcharge, or any other operational dysfunction. This reporting requirement applies to all overflow events other than those events subject to regulation under this Regional Board's Order No. 96-04, *General Waste Discharge Requirements Prohibiting Sanitary Sewer Overflows by Sewage Collection Agencies*. Overflows of the kind identified under this provision shall be reported to the Regional Board with the monthly monitoring report in which the overflow occurs.

8. UNAUTHORIZED DISCHARGES OF RECYCLED WATER

Any person who, without regard to intent or negligence, causes or permits an unauthorized discharge of 50,000 gallons or more of recycled water that has been treated to at least disinfected tertiary 2.2 recycled water or 1,000 gallons or more of recycled water that is treated at a level less than disinfected tertiary 2.2 recycled water in or on any waters of the state, or causes or permits such unauthorized discharge to be discharged where it is, or probably will be, discharged in or on any waters of the state, shall, as soon as (1) that person has knowledge of the discharge, (2) notification is possible, and (3) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify this Regional Board in accordance with reporting requirements in Standard Provision F.6.

9. PRIOR NOTICE OF BYPASS

If a need for a discharge bypass is known in advance, the Recycled Water Agency shall submit prior notice (stating, at a minimum, the purpose, anticipated dates, duration, level of treatment, and volume of bypass) and, if at all possible, such notice shall be submitted at least 10 days prior to the date of the bypass. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility to other than a sewer system.

10. CORRECTIVE ACTION

The Recycled Water Agency shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.

11. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the Recycled Water Agency that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the Recycled Water Agency shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies for example, when the primary source of power of the treatment facility is failed, reduced, or lost.

12. HAZARDOUS RELEASES

Except for a discharge which is in compliance with these master reclamation permit requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Director of Environmental Health Services, County of San Diego in accordance with California Health and Safety Code, Section 5411.5 and the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State Toxic Disaster Contingency Plan adopted pursuant to Article 3.7 (commencing with section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the Recycled Water Agency is in violation of a prohibition in the applicable Water Quality Control Plan.

13. PETROLEUM RELEASES

Except for a discharge which is in compliance with these master reclamation permit requirements, any person who without regard to intent or negligence,

causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan.

14. PERMIT REPOSITORY

A copy of this Order shall be maintained at the Recycled Water Agency's facility and shall be available to operating personnel at all times.

15. RETENTION OF RECORDS

The Recycled Water Agency shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

16. GENERAL REPORTING REQUIREMENT

The Recycled Water Agency shall furnish to the Executive Officer of this Regional Board, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Recycled Water Agency shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.

17. PERMIT REVISION

This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this Order.
- b. Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts.
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

The filing of a request by the Recycled Water Agency for the modification, revocation and reissuance, or termination of this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

18. CHANGE IN DISCHARGE

The Recycled Water Agency shall file a new Report of Waste Discharge at least 120 days prior to the following:

- a. Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the wastes.
- b. Significant change in the treatment or disposal method (e.g., change in the method of treatment which would significantly alter the nature of the waste.)
- c. Change in the disposal area from that described in the findings of this Order.
- d. Increase in flow beyond that specified in this Order.
- e. Other circumstances which result in a material change in character, amount, or location of the waste discharge.
- e. Any planned change in the regulated facility or activity which may result in noncompliance with this Order.

19. CHANGE IN OWNERSHIP

This Order is not transferable to any person except after notice to the Executive Officer. The Recycled Water Agency shall submit this notice in writing at least 30 days in advance of any proposed transfer. The notice must include a written agreement between the existing and new Recycled Water Agency containing a specific date for the transfer of this Order's

responsibility and coverage between the current Recycled Water Agency and the new Recycled Water Agency. This agreement shall include an acknowledgement that the existing Recycled Water Agency is liable for violations up to the transfer date and that the new Recycled Water Agency is liable from the transfer date on. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the Recycled Water Agency and incorporate such other requirements as may be necessary under the California Water Code.

20. INCOMPLETE REPORTS

Where the Recycled Water Agency becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information.

21. REPORT DECLARATION

All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:

- a. The Report of Waste Discharge shall be signed as follows:
 - (1) For a corporation - by a principal executive officer of at least the level of vice-president.
 - (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 - (3) For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.
- b. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if all of the following are true:
 - (1) The authorization is made in writing by a person described in paragraph (a) of this provision,
 - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, and
 - (3) The written authorization is submitted to the Executive Officer.

- c. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

22. REGIONAL BOARD ADDRESS

The Recycled Water Agency shall submit reports required under this Order or other information required by the Executive Officer to the following address:

POTW Compliance Unit
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123

G. NOTIFICATIONS

1. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the Recycled Water Agency from liability under federal, state or local laws, nor create a vested right for the Recycled Water Agency to continue the waste discharge.

2. U.S. EPA REVIEW

These requirements have not been officially reviewed by the United States Environmental Protection Agency and are not issued pursuant to section 402 of the Clean Water Act.

3. SEVERABILITY

The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.

4. EFFECTIVE DATE

This Order becomes effective on the date of adoption by the San Diego RWQCB.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on

TENTATIVE
JOHN H. ROBERTUS
Executive Officer

ATTACHMENT NO.1

TO

ORDER NO. R9-2003-0007

RULES AND REGULATIONS FOR RECYCLED WATER USE PROJECTS

Pursuant to California Water Code (CWC) section 13523.1(b)(3), this Order requires the Recycled Water Agency to establish and to enforce rules and regulations governing the design, construction and use of recycled water distribution and disposal systems by its customers. The rules and regulations shall be consistent with the following criteria:

- Title 22, Division 4, Chapter 3, *Wastewater Reclamation Criteria*;
- Title 17, Division 1, Chapter 5, Group 4, Article 1 & 2, of the California Code of Regulations;
- The State Department of Health Services (State DHS) *Preparation of an Engineering Report for the Production, Distribution and Use of Recycled Water*;
- Any measures that are deemed necessary for protection of public health, such as the American Water Works Association (AWWA) California/Nevada section, *Guidelines for the Distribution of Non-Potable Water and Guidelines for Retrofitting To Recycled Water* or alternate measures that are acceptable to the State DHS.

At a minimum, the rules and regulations shall notify the users that:

1. The use of recycled water shall not cause pollution, contamination, or nuisance, as defined by section 13050 of the California Water Code.
2. The Recycled Water Agency, the Regional Board, the State DHS, and the County DEH or an authorized representative of these parties, upon presentation of proper credentials, shall have the right to enter upon the recycled water use site during reasonable hours, to verify that the user is complying with the Recycled Water Agency's rules and regulations.
3. The recycled water user shall provide written notification, in a timely manner, to the Recycled Water Agency of any material change or proposed change in the character of the use of recycled water.
4. Prior to the initiation of recycled water service, the recycled water user shall

submit plans and specifications for recycled water distribution facilities to the Recycled Water Agency.

5. The recycled water user shall designate a recycled water supervisor who is responsible for the recycled water system at each use area under the user's control. Specific responsibilities of the recycled water supervisor include the proper installation, operation, and maintenance of the irrigation system; compliance of the project with the Recycled Water Agency's rules and regulations, prevention of potential hazards and preservation of the recycled water distribution system plans in "as built" form. Designated recycled water supervisors shall obtain instruction in the use of recycled water from an institution approved by the State DHS and County DEH. Additional guidance regarding recycled water supervisor responsibilities and instruction requirements is provided in Attachments 17 and 18 of the *Recycled Water Plan Check and Inspection Manual* developed by the County DEH, and which are incorporated herein by reference.
6. The Recycled Water Agency may terminate service to a recycled water user who uses, transports, or stores such water in violation of the Recycled Water Agency's rules and regulations.
7. All recycled water storage facilities owned and/or operated by recycled water users shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm unless the Regional Board Executive Officer approves relaxed storm protection measures for the facility.
8. All recycled water storage facilities owned and/or operated by recycled water users shall be protected against 100-year frequency peak stream flows as defined by the San Diego County flood control agency unless the Regional Board Executive Officer approves relaxed storm protection measures for the facility.
9. The Regional Board may initiate enforcement action against any recycled water user, including but not limited to the termination of the reclaimed water supply, who:
 - a. Discharges recycled water in violation of any applicable discharge requirement prescribed by the Regional Board or in a manner which creates or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.
 - b. Uses, transports, or stores such water in violation of the rules and regulations governing the design, construction and use of recycled

water distribution and disposal systems issued by the recycled water agency in accordance with this attachment; or in a manner which creates or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code section 13050.

10. A copy of the recycled water rules and regulations, irrigation system layout map, and a recycled water system operations manual shall be maintained at the use area. These documents shall be available to operating personnel at all times.
11. Irrigation with disinfected tertiary recycled water shall not take place within 50 feet of any domestic water supply well unless all of the following conditions have been met:
 - a. A geological investigation demonstrates that an aquitard exists at the well between the uppermost aquifer being drawn from and the ground surface.
 - b. The well contains an annular seal that extends from the surface into the aquitard.
 - c. The well is housed to prevent any recycled water spray from coming into contact with the wellhead facilities.
 - d. The ground surface immediately around the wellhead is contoured to allow surface water to drain away from the well.
 - e. The owner of the well approves of the elimination of the buffer zone requirement.
12. Impoundment of disinfected tertiary recycled water shall not occur within 100 feet of any domestic water supply well.
13. Irrigation with, or impoundment of, disinfected secondary-2.2 or disinfected secondary-23 recycled water shall not take place within 100 feet of any domestic water supply well.
14. Irrigation with, or impoundment of, undisinfected secondary recycled water shall not take place within 150 feet of any domestic water supply well.
15. Reclaimed water facilities shall be operated in accordance with best management practices (BMP's) to prevent direct human consumption of reclaimed water and to minimize misting, ponding, and runoff. BMP's shall be implemented that will minimize both public contact and discharge onto areas not under customer control.
16. All windblown spray and surface runoff of reclaimed water applied for

irrigation onto property not owned or controlled by the discharger or reclaimed water user shall be prevented by implementation of BMP's.

17. Irrigation with reclaimed water shall be during periods of minimal human use of the service area. Consideration shall be given to allow an adequate dry-out time before the irrigated area will be used by the public.
18. All drinking fountains located within the approved use area shall be protected by location and/or structure from contact with recycled water spray, mist, or runoff. Protection shall be by design, construction practice, or system operation.
19. Facilities that may be used by the public, including but not limited to eating surfaces and playground equipment and located within the approved use areas, shall be protected to the maximum extent possible by siting and/or structure from contact by irrigation with recycled water spray, mist, or runoff. Protection shall be by design, construction practice or system operation.
20. Spray irrigation with recycled water, other than disinfected tertiary recycled water, shall not take place within 100 feet of the property line of a residence or a place where public exposure could be similar to that of a park, playground, or school yard.
21. All use areas where recycled water is used and that are accessible to the public shall be posted with conspicuous signs, in a size no less than 4 inches by 8 inches, that include the following wording and picture in a size no less than 4 inches high by 8 inches wide: "RECYCLED WATER - DO NOT DRINK". See Attachment No. 2 for the acceptable symbol. The sign(s) shall be of a size easily readable by the public. The prescribed wording should also be translated into Spanish and other appropriate languages and included in the required signs.
22. No physical connection shall be made or allowed to exist between any recycled water system and any separate system conveying potable water.
23. The recycled water piping system shall not include any hose bibs. Quick couplers that are different from that used on the potable water system may be used.
24. The public water supply shall not be used as a backup or supplemental source of water for a recycled water system unless the connection between the two systems is protected by an air gap separation which complies with the requirements of sections 7602(a) and 7603(a) of Title 17 and the approval of the public water system has been obtained. If a "Swivel-ell" type connection is used it must be used in accordance with the provisions of the

Department of Health Services Policy Memo 95-004. Approved backflow prevention devices shall be provided, installed, tested, and maintained by the recycled water user in accordance with the applicable provisions of Title 17, Division 1, Chapter 5, Group 4, Article 2.

25. No person other than the Recycled Water Agency shall deliver recycled water to a facility. Connection to the irrigation system by an individual residence is prohibited.
26. All recycled water piping and appurtenances in new installations and appurtenances in retrofit installations shall be colored purple or distinctively wrapped with purple tape in accordance with Chapter 7.9, section 4049.54 of the California Health and Safety Code.
27. Customer complaints concerning recycled water use that may involve public illness shall be reported to the County DEH and the State DHS, and to the Recycled Water Agency who shall maintain a log of all customer complaints regarding recycled water.
28. Any backflow prevention device installed to protect the public water system shall be tested, inspected, and maintained in accordance with section 7605 of Title 17, California Code of Regulations.